

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 08:14:51 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 156 TO ITERATE

100.0% PROCESSED 156 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 2371 TO 3869
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 08:14:58 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 2916 TO ITERATE

100.0% PROCESSED 2916 ITERATIONS 3 ANSWERS
 SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'CAPLUS' ENTERED AT 08:15:03 ON 17 DEC 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing

of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 17 Dec 2004 VOL 141 ISS 25
FILE LAST UPDATED: 15 Dec 2004 (20041215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 5 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:819372 CAPLUS
 DOCUMENT NUMBER: 132:49830
 TITLE: Preparation of naphtho[1,8-de]thiasin-2-yl methyl carbapenem antibacterials
 Ratcliffe, Ronald W.; Dykstra, Kevin D.; Blizzard, Timothy A.
 INVENTOR(S): Merck & Co., Inc., USA
 PATENT ASSIGNEE(S): FCT Int. Appl., 61 pp.
 SOURCE: CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

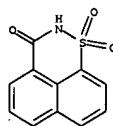
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967242	A1	19991229	WO 1999-US14235	19990623
W:	AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2335510	AA	19991229	CA 1999-2335510	19990623
AU 9947118	A1	20000110	AU 1999-47118	19990623
EP 1090000	A1	20010411	EP 1999-930616	19990623
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
US 6346526	B1	20020212	US 1999-338646	19990623
JP 2002518498	T2	20020625	JP 2000-555895	19990623
PRIORITY APPLN. INFO.:			US 1998-90613P	P 19980625
			WO 1999-US14235	W 19990623

OTHER SOURCE(S): MARPAT 132:49830
 GI

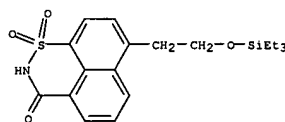
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Carbapenem derivs. of formula I [P = H, (substituted) OH, F; R1 = H, Me; M = H, anion, ester group; X = CH2, CO; R = (substituted) Ph, alkenyl, etc.; n = 0-4] are prepared as antibacterial agents (no data). Thus, II is prepared by adding 1,1-dioxo-2,3-dihydronaphtho[1,8-de]thiasin-3-one to III, then deblocking.
 IT 29083-20-3 252908-64-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of naphtho[1,8-de]thiasin-2-yl Me carbapenem antibacterials)

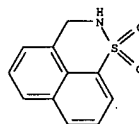
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 29083-20-3 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)



RN 252908-64-8 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 7-[2-((triethylsilyl)oxy)ethyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



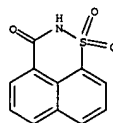
IT 225531-06-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of naphtho[1,8-de]thiasin-2-yl Me carbapenem antibacterials)
 RN 225531-06-6 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazine, 2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

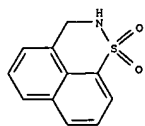
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:193190 CAPLUS
 DOCUMENT NUMBER: 131:5125
 TITLE: Synthesis and activity of 2-(sulfonamido)methylcarbapenems: discovery of a novel, anti-MRSA 1,8-naphthosultam pharmacophore
 AUTHOR(S): Wilkening, R. R.; Ratcliffe, R. W.; Wildonger, K. J.; Cama, L. D.; Dykstra, K. D.; DiNinno, F. P.;
 Blizzard, T. A.; Hammond, M. L.; Heck, J. V.; Dorso, K. L.; St. Rose, E.; Kohler, J.; Hammond, G. G.
 CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Research Laboratories, Merck and Co., Inc., Rahway, NJ, 07065-0900, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (1999), 9(5), 673-678
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 1β-Me carbapenems substituted at the 2-position with lipophilic, acyclic and cyclic (sulfonamido)methyl groups were prepared and evaluated for activity against resistant gram-pos. bacteria. The 1,8-naphthosultamyl group emerged as a novel, PBP2a-binding, anti-MRSA pharmacophore worthy of further exploration.
 IT 29083-20-3 225531-06-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and antibacterial activity of 2-(sulfonamido)methylcarbapenems)
 RN 29083-20-3 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)



RN 225531-06-6 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazine, 2,3-dihydro-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

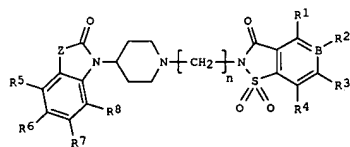
ACCESSION NUMBER: 1998:392146 CAPLUS
DOCUMENT NUMBER: 129:54361
TITLE: Preparation of benzisothiazolones and analogs as α_1 C-adrenergic receptor antagonists
INVENTOR(S): Huff, Joel R.; Lee, Hee-yoon; Nerenberg, Jennie B.; Thompson, Wayne J.; Bell, Ian M.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 57 pp., Cont.-in-part of U. S. Ser. No. 229,276,
abandoned.

DOCUMENT TYPE: CODEN: USXXAM
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: English
PATENT INFORMATION: 2

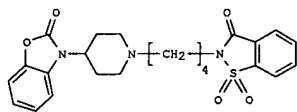
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5760054	A	19980602	US 1996-722001	19961001
WO 9528397	A1	19951026	WO 1995-US4590	19950413
W:	AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ			
RW:	KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 1994-229276	B2 19940413
			WO 1995-US4590	W 19950413

OTHER SOURCE(S): MARPAT 129:54361
GI

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



I



II

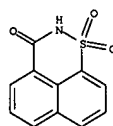
AB The invention relates to the claimed title compds. I [n = 3-5; B = C or N;

R1, R2, R3, R4 = H, halo, NO2, NH2, (un)substituted alkyl, alkoxy, aryl, heteroaryl, etc.; R5, R6, R7, R8 = H, alkyl, alkenyl, alkoxy; Z = O, S, CH2, NH, NMe] and analogs. Also disclosed are the synthesis and use of the compds. as selective α_1 C-adrenergic receptor antagonists. The primary application of the compds. is in the treatment of benign

prostatic hypertrophy (BPH). The compds. selectively relax smooth muscle tissue enriched in the α_1 C receptor subtype without inducing orthostatic hypotension. The compds. provide acute relief of BPH by permitting less hindered urine flow. I and analogs are also useful in combination with human 5 α -reductase inhibitors, providing both acute and chronic relief from the effects of BPH. Approx. 130 specific invention compds. are disclosed. The cloning and use of a cDNA for a human α_1 C adrenoceptor in an in vitro assay is described. For instance, alkylation of 1-(4-piperidinyl)-3-benzoxazolin-2-one.HCl (prepared in 4 steps) with 2-(4-bromobutyl)-1,1-dioxido-1,2-benzisothiazol-3(2H)-one in the presence of (i-Pr)2NTE in DMF gave 40% title compound II. Selected compds. showed nanomolar or subnanomolar affinity for human α_1 C receptor subtype while showing 30-fold lower affinity for human α_1 A and α_1 B subtypes (no data).

IT 29083-20-3
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of benzisothiazolones and analogs as α_1 C-adrenergic antagonists)
RN 29083-20-3 CAPLUS
CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



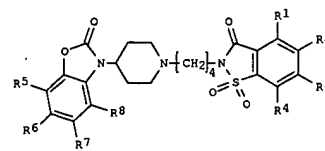
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1995:998362 CAPLUS
 DOCUMENT NUMBER: 124:176079
 TITLE: Preparation of heterocycles as α 1c adrenergic receptor antagonists
 INVENTOR(S): Huff, Joel R.; Lee, Hee-Yoon; Nerenberg, Jennie B.; Thompson, Wayne J.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 209 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

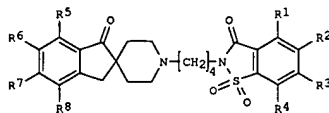
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9528397	A1	19951026	WO 1995-US4590	19950413
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2187767	AA	19951026	CA 1995-2187767	19950413
AU 9523566	A1	19951110	AU 1995-23566	19950413
AU 688498	B2	19980312		
EP 755392	A1	19970129	EP 1995-917565	19950413
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09512016	T2	19971202	JP 1995-527097	19950413
US 5760054	A	19980602	US 1996-722001	19961001
PRIORITY APPLN. INFO.:			US 1994-229276	A 19940414
			WO 1995-US4590	W 19950413

OTHER SOURCE(S): MARPAT 124:176079
 GI

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

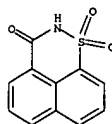


I



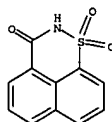
II

AB Title compds. such as I (R1, R2, R3, R4 = H, NO2, NH2, etc.; R5, R6, R7, R8 = H, alkyl, alkenyl, alkoxy, etc.) and II, effective testosterone reductase inhibitors useful in treatment of benign prostatic hyperplasia, were prepared Alkylation of 1-(4-piperidyl)-3-benzoxazolin-2-one.HCl with 2-(4-bromobutyl)-1,1-dioxo-1,2-benzothiazol-3(2H)-one in the presence of (1-Pr)2NET in DMF afforded 40% I (R1-R8 = H). Title compds. are effective at 0.001 mg/kg - 7 mg/kg per day in humans.
 IT 29083-20-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of heterocycles as α 1c adrenergic receptor antagonists)
 RN 29083-20-3 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1971:463679 CAPLUS
 DOCUMENT NUMBER: 75:63679
 TITLE: Preparation of substituted 1,2-benzisothiazolin-3-one
 1,1-dioxides (o-benzoic sulfimides)
 AUTHOR(S): Lombardino, Joseph G.
 CORPORATE SOURCE: Med. Res. Lab., Pfizer Co., Inc., Groton, CT, USA
 SOURCE: Journal of Organic Chemistry (1971), 36(13), 1843-5
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 75:63679
 GI For diagram(s), see printed CA Issue.
 AB N-(tert-Butyl)benzenesulfonamides (I) are converted to 1,2-benzisothiazolin-3-one 1,1-di-oxides (II) by lithiation (BuLi), carbonation, and cyclization (polyphosphoric acid). N-Benzyl analogs of the I are not debenzylated.
 2,3-Dihydro-3-oxonaphtho[1,8-de][1,2]thiazine 1,1-dioxide (III) is prepared by the same series of reactions from 1-C10H7SO2NHMe3.
 IT 29083-20-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 29083-20-3 CAPLUS
 CN Naphtho[1,8-de]-1,2-thiazin-3(2H)-one, 1,1-dioxide (8CI, 9CI) (CA INDEX NAME)



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	182	544/14, 544/33	USPAT	OR	OFF	2004/12/17 08:51
L2	1054	\$1,2-thiazin\$	USPAT	OR	OFF	2004/12/17 08:51
L3	26	l1 and l2	USPAT	OR	OFF	2004/12/17 08:51

 **PALM INTRANET**Day : Friday
Date: 12/17/2004
Time: 09:04:41**Inventor Information for 10/699374**

Inventor Name	City	State/Country
CECI, ANGELO	BIBERACH	GERMANY
KLINDER, KLAUS	OGGELSHAUSEN	GERMANY
WEISER, THOMAS	NIEDER-OLM	GERMANY
WINTER, KARIN	GAU-ALGESHEIM	GERMANY

[Appln Info](#)[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity Data](#)[Foreign Data](#)

Search Another: Application#

or Patent#

PCT /

/

or PG PUBS #

Attorney Docket #

Bar Code #

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)